


FIG. 1A

2 1  <element name> (START TAG)

2 2 ELEMENT CONTENT (CONTENT OF ELEMENT) 2

`</element name>` (END TAG)


2 3  `<element name/>` (EMPTY ELEMENT TAG: TAG OF ELEMENT HAVING EMPTY CONTENT)

FIG. 1B

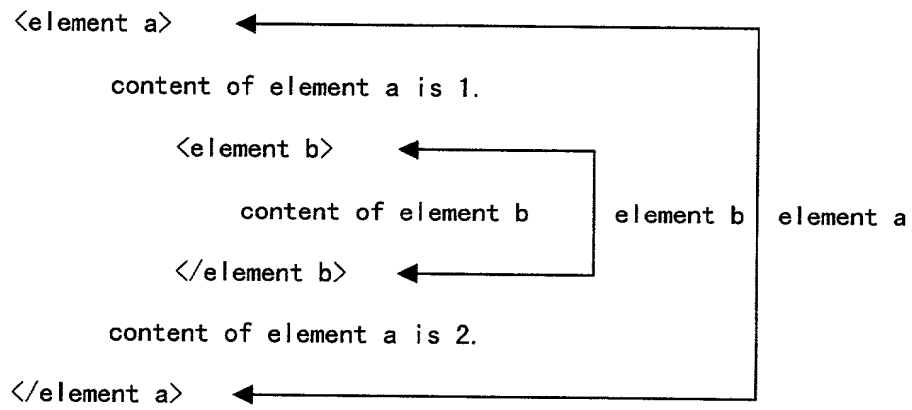


FIG. 1C

	DECLARATION TYPE	DOCUMENT TYPE DEFINITION	IMPLEMENTATION VALUE
WELL-FORMED XML DOCUMENT	△ (XML DECLARATION)	△	○
VALID XML DOCUMENT	△ (XML DECLARATION)	○	○
SGML DOCUMENT	○ (SGML DECLARATION)	○	○
HTML DOCUMENT	△ (HTML DECLARATION)	○	○

FIG. 1D

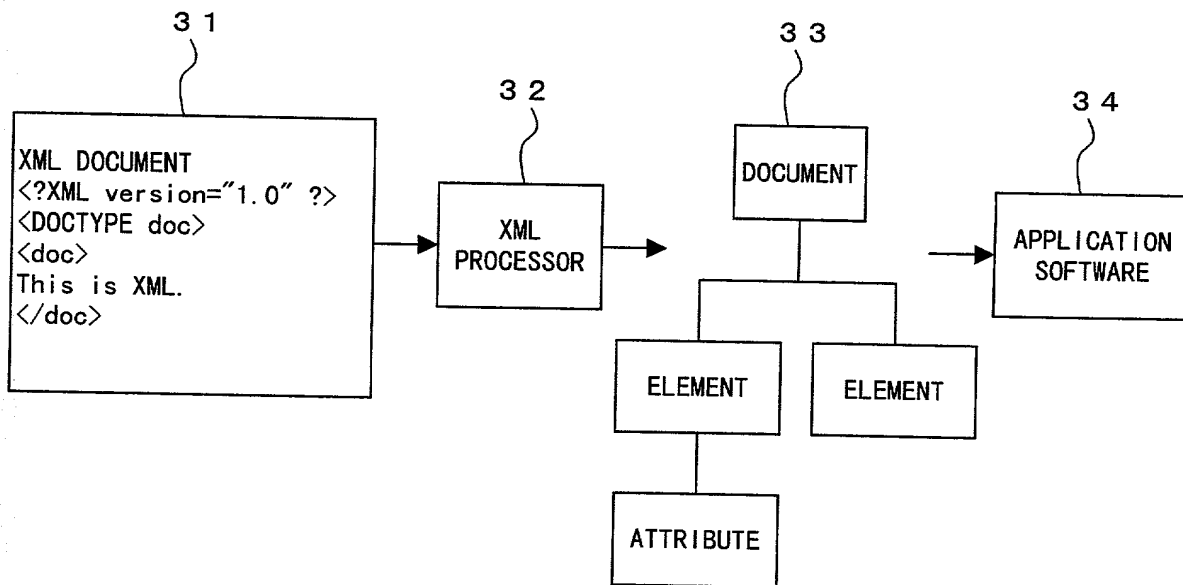


FIG. 1E

```
<?xml version="1.0" encoding="Shift_JIS" ?>  
<eventlist staff="Hiroshi FUJITSU">  
  <event type="JOB">  
    <start/>  
    <info>STARTING</info>  
  </event>  
</eventlist>
```

FIG. 1F

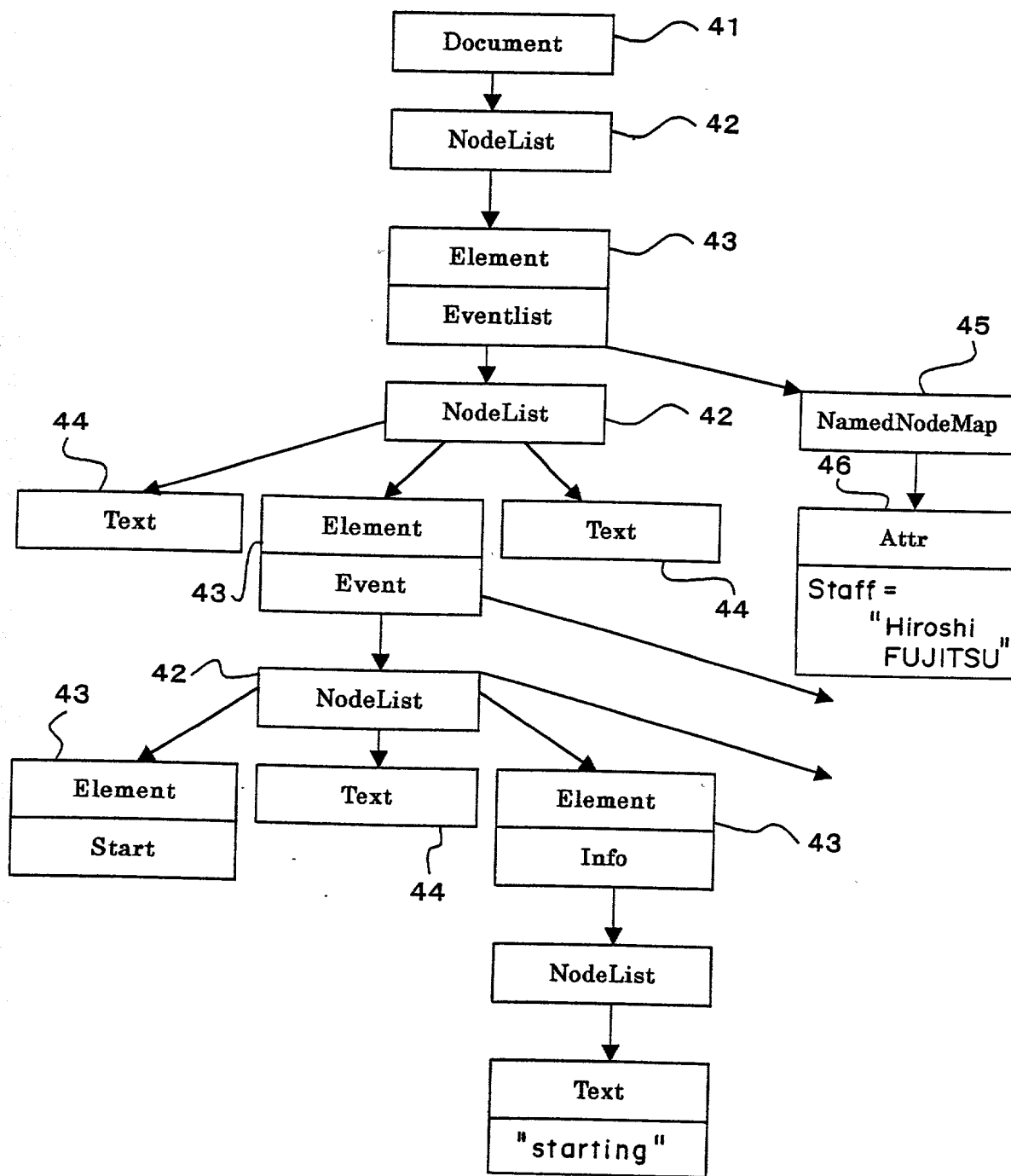


FIG. 1G

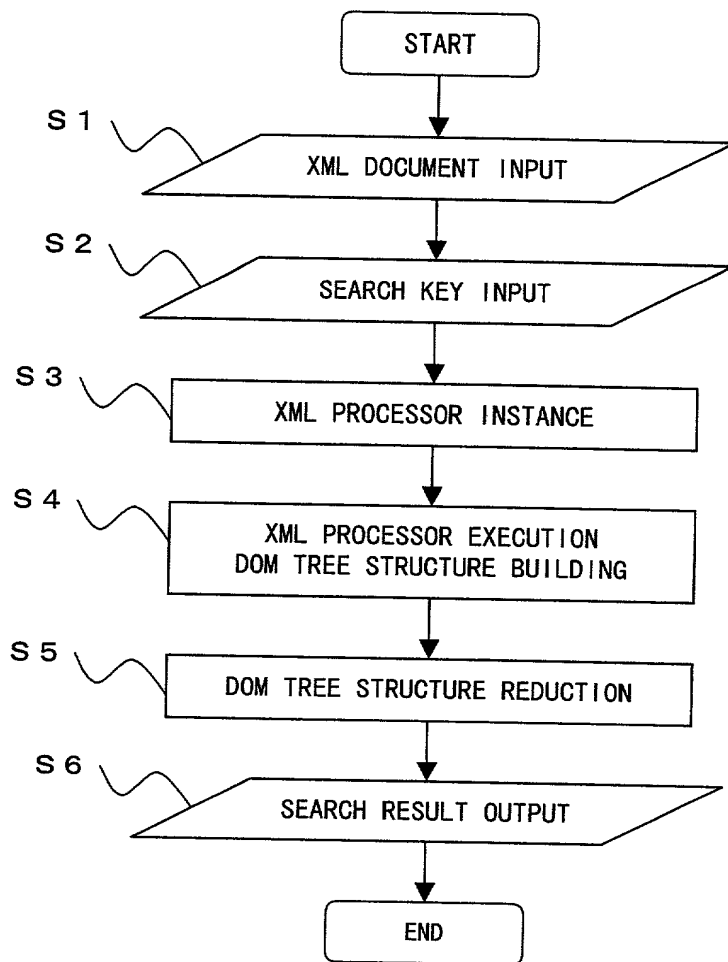


FIG. 1H

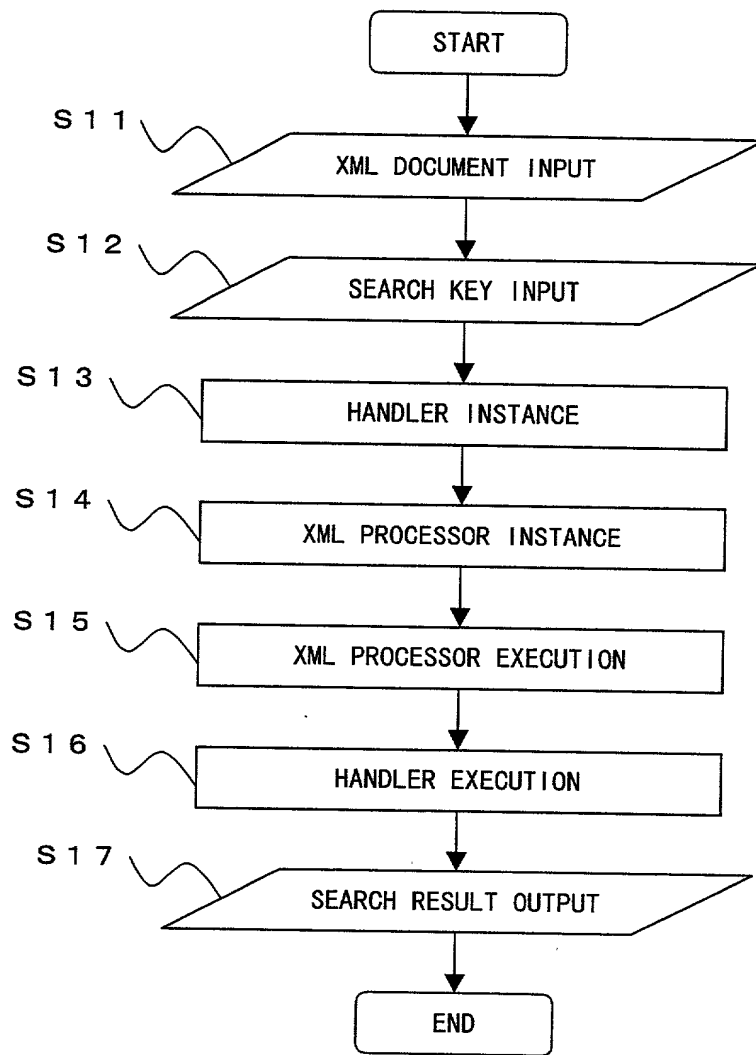


FIG. 11

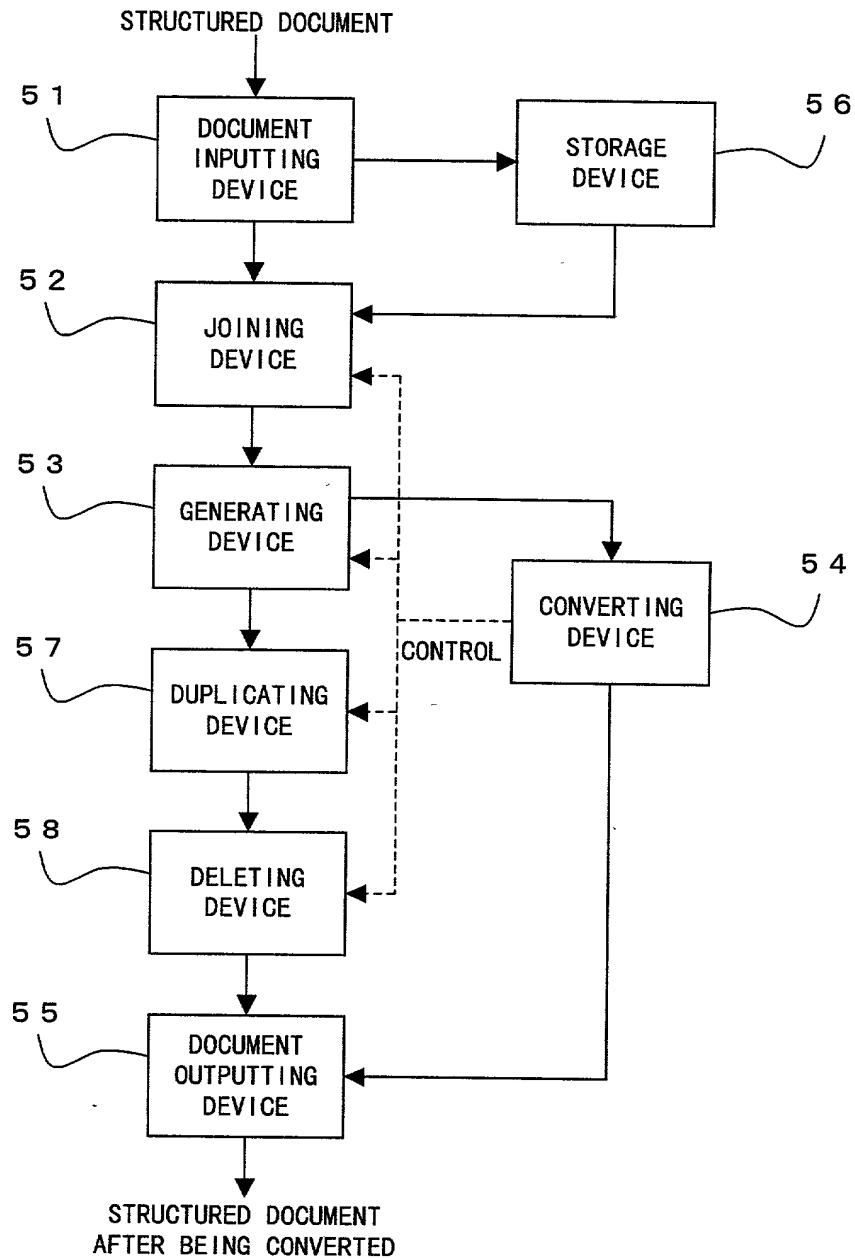


FIG. 2A

```
<?xml version="1.0" encoding="Shift_JIS" ?>
<eventlist staff="Hiroshi FUJITSU">
```

```
<event>
  <info>quitting</info>
</event>
```

P 1

SYNTHETIC

```
<event>
  <info>starting</info>
  <info>starting</info>
</event>
```

NON-TARGET

```
<event>
  <info>meeting</info>
</event>
```

P 2

SYNTHETIC

```
<event>
  <info>experiment</info>
</event>
```

TARGET

```
<event>
  <info>business trip</info>
</event>
```

P 3

SYNTHETIC

```
<event>
  <info>overseas business trip</info>
</event>
```

TARGET

```
<event>
  <info>receiving guest</info>
</event>
```

P 4

SYNTHETIC

```
<event>
  <info>interview</info>
</event>
```

TARGET

```
</eventlist>
```

FIG. 2B

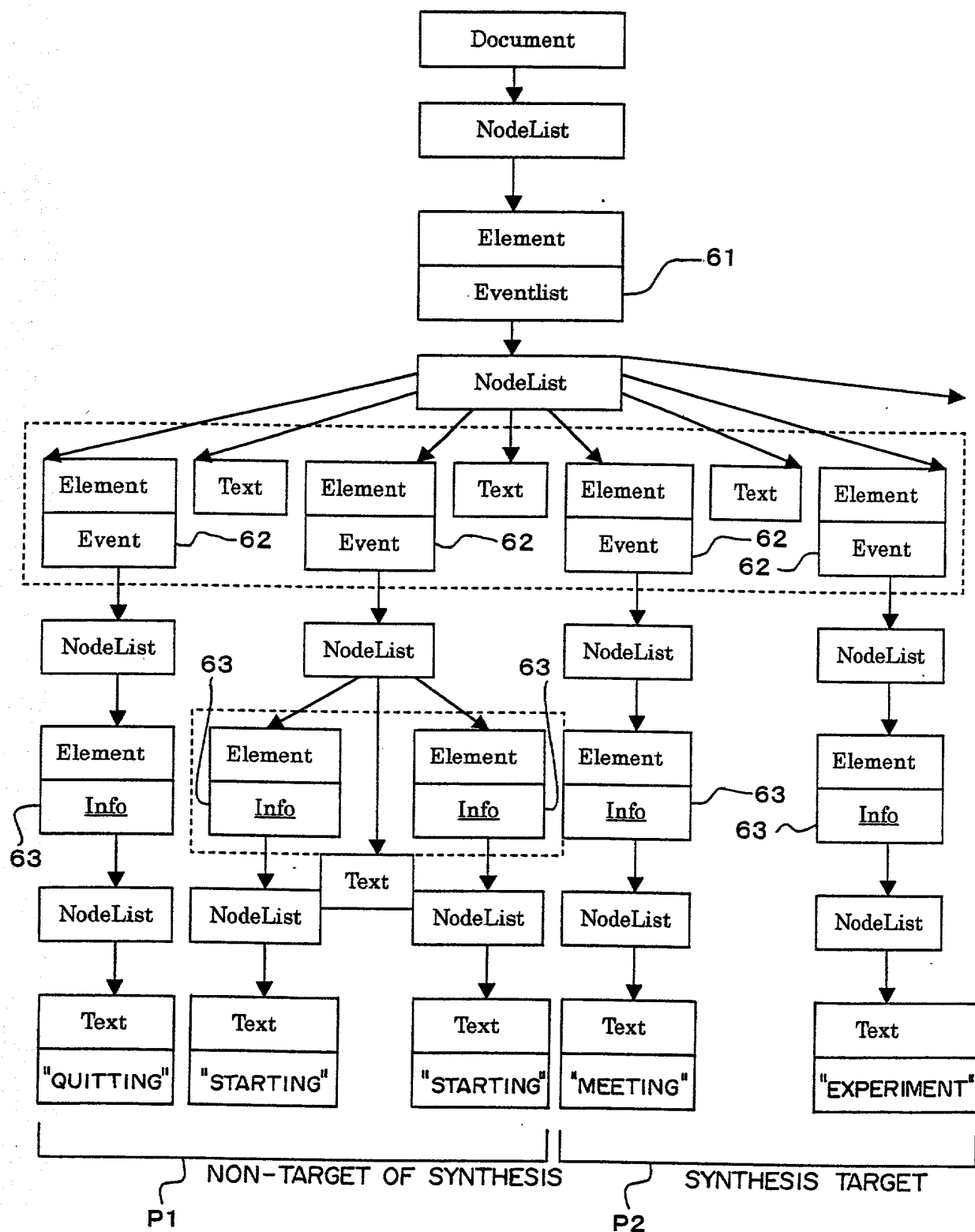


FIG. 3

```
<?xml version="1.0" encoding="Shift_JIS" ?>
<eventlist staff="Hiroshi FUJITSU">
  first
  <event>
    <start>8:40</start>
    <info>starting</info>
  </event>
  second
  <event>
    <info>quitting</info>
  </event>
  third
  <event>
    <start>9:00</start>
    <info>receiving guest</info>
  </event>
  fourth
  <event>
    <start>9:30</start>
    <info>meeting</info>
  </event>
</eventlist>
```

F I G. 4

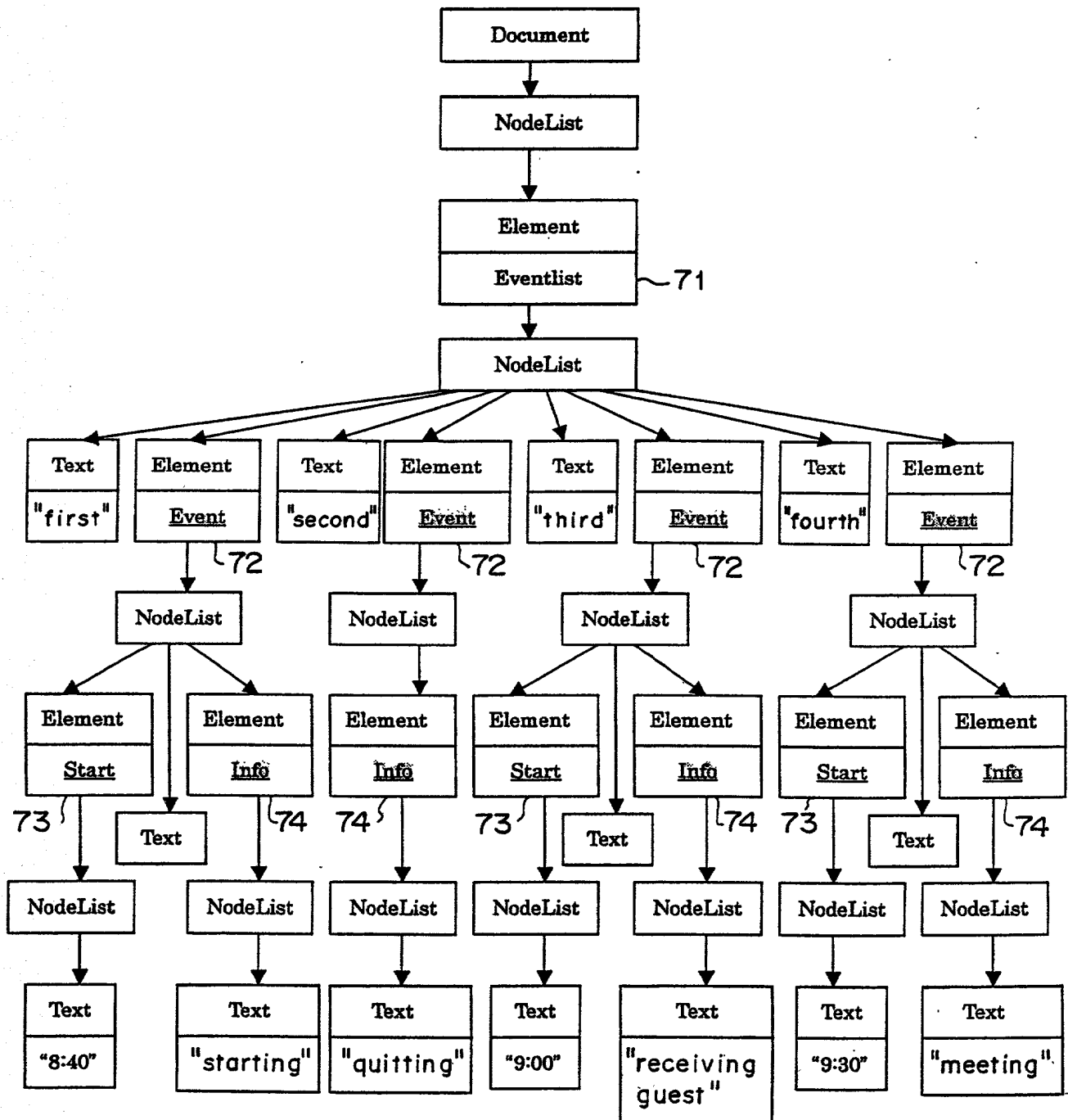


FIG. 5

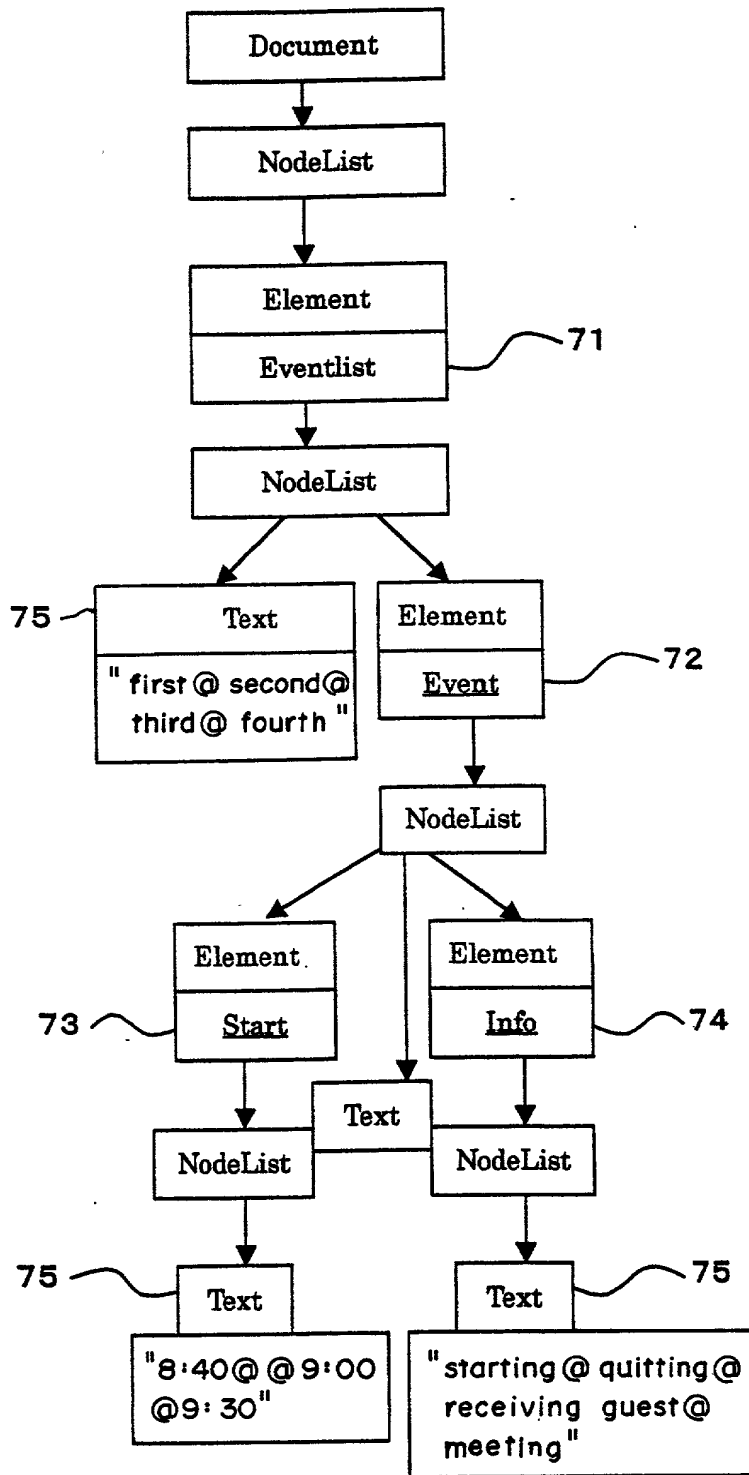


FIG. 6

```
<?xml version="1.0" encoding="Shift_JIS" ?>
<eventlist staff="Hiroshi FUJITSU">
  first@second@third@fourth
  <event>
    <start>8:40@@9:00@9:30</start>
    <info>starting@quitting@receiving_guest@meeting</info>
  </event>
</eventlist>
```

F I G. 7

FIG. 7 is a diagram illustrating an example of an XML document. The XML document is shown within a rectangular box. The XML document starts with a declaration: <?xml version="1.0" encoding="Shift_JIS" ?>. This is followed by a root element: <eventlist staff="Hiroshi FUJITSU">. Inside the root element, there is a text element: <first@second@third@fourth>. This is followed by an event element: <event>. Inside the event element, there are two sub-elements: <start>8:40@@9:00@9:30</start> and <info>starting@quitting@receiving_guest@meeting</info>. The event element is closed with </event>. Finally, the root element is closed with </eventlist>.

HASH VALUE	ELEMENT NAME OF ANCESTOR/PARENT	OWN ELEMENT NAME	CONTENT OF ELEMENT
H1	Event	Info	starting@quitting@ receiving guest@meeting
H2	Event	Start	8:40@@9:00@9:30

FIG. 8

HASH VALUE	ELEMENT NAME OF ANCESTOR/PARENT	OWN ELEMENT NAME	CONTENT OF ELEMENT
H3	Event	Info	starting@quitting@ receiving guest@meeting
H4	Event	Start	8:40@17:00@9:00@9:30

FIG. 9

```
<?XML version="1.0" ?>
<DOCTYPE doc>
<doc>
  <personal>
    <family name>Suzuki</family name>
    <first name>Sayuri</first name>
    <former name>Ogawa</former name>
  </personal>
  <personal>
    <family name>Sato</family name>
    <first name>Ichiro</first name>
  </personal>
</doc>
```

FIG. 10

```
<?XML version="1.0" ?>  
<DOCTYPE doc>  
<doc>  
  <personal>  
    <family name>Suzuki@Sato</family name>  
    <first name>Sayuri@Ichiro</first name>  
    <former name>Ogawa@</former name>  
  </personal>  
</doc>
```

FIG. 11

```
<?XML version="1.0" ?>  
<DOCTYPE doc>  
<doc>  
  <personal>  
    <family name>Suzuki</family name>  
    <first name>Sayuri</first name>  
    <former name>Ogawa</former name>  
  </personal>  
</doc>
```

F I G. 1 2

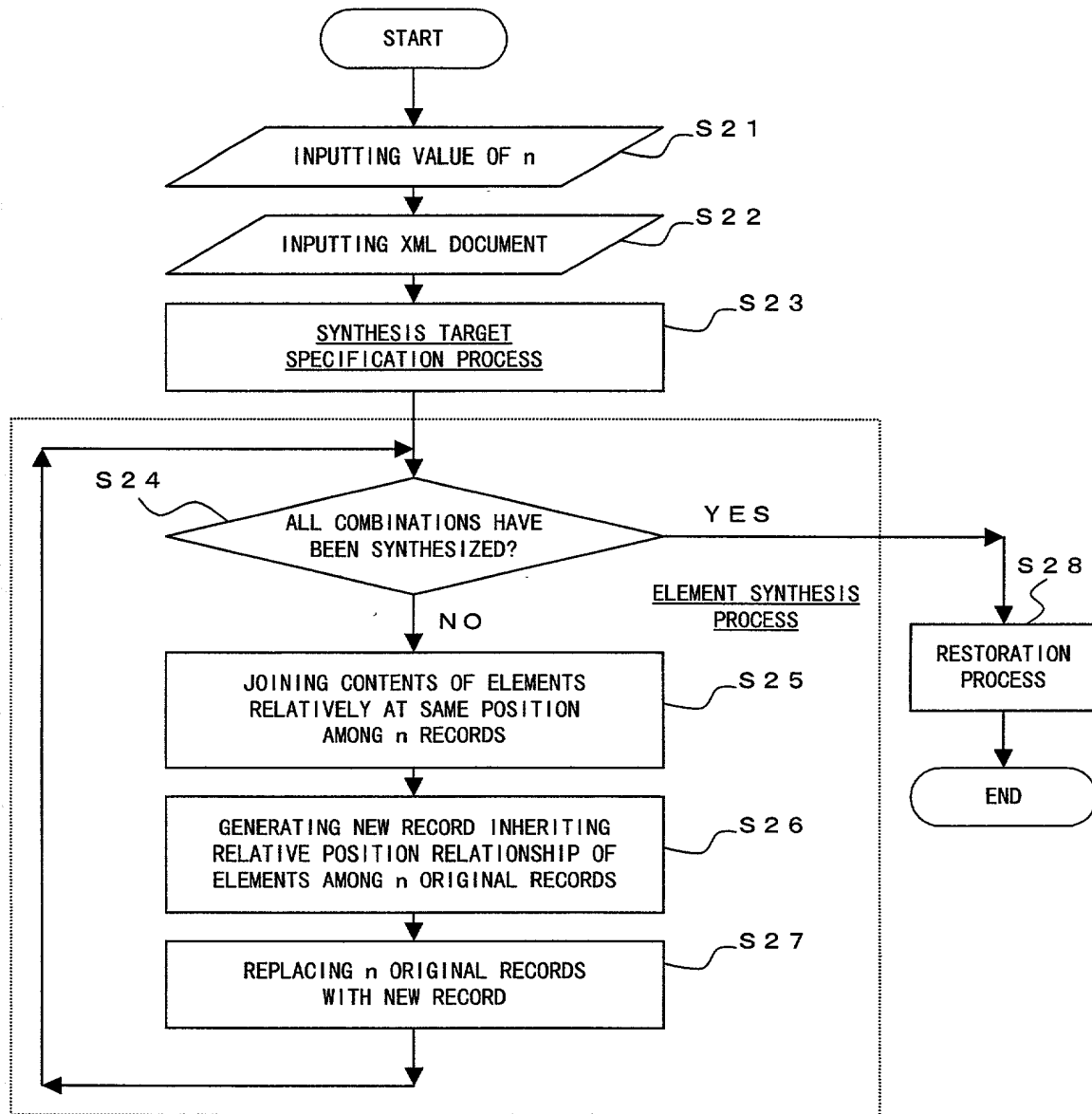


FIG. 13

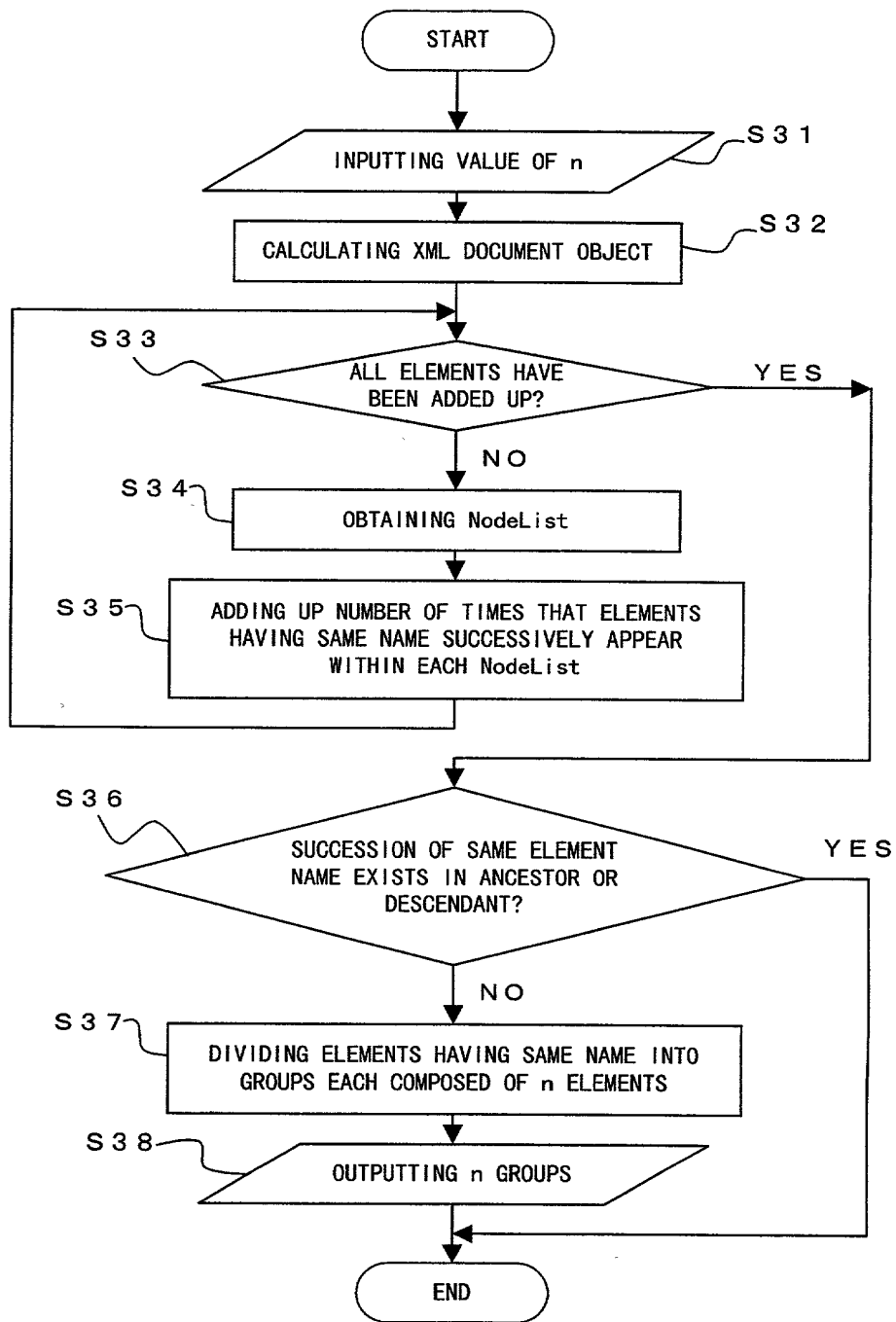


FIG. 14

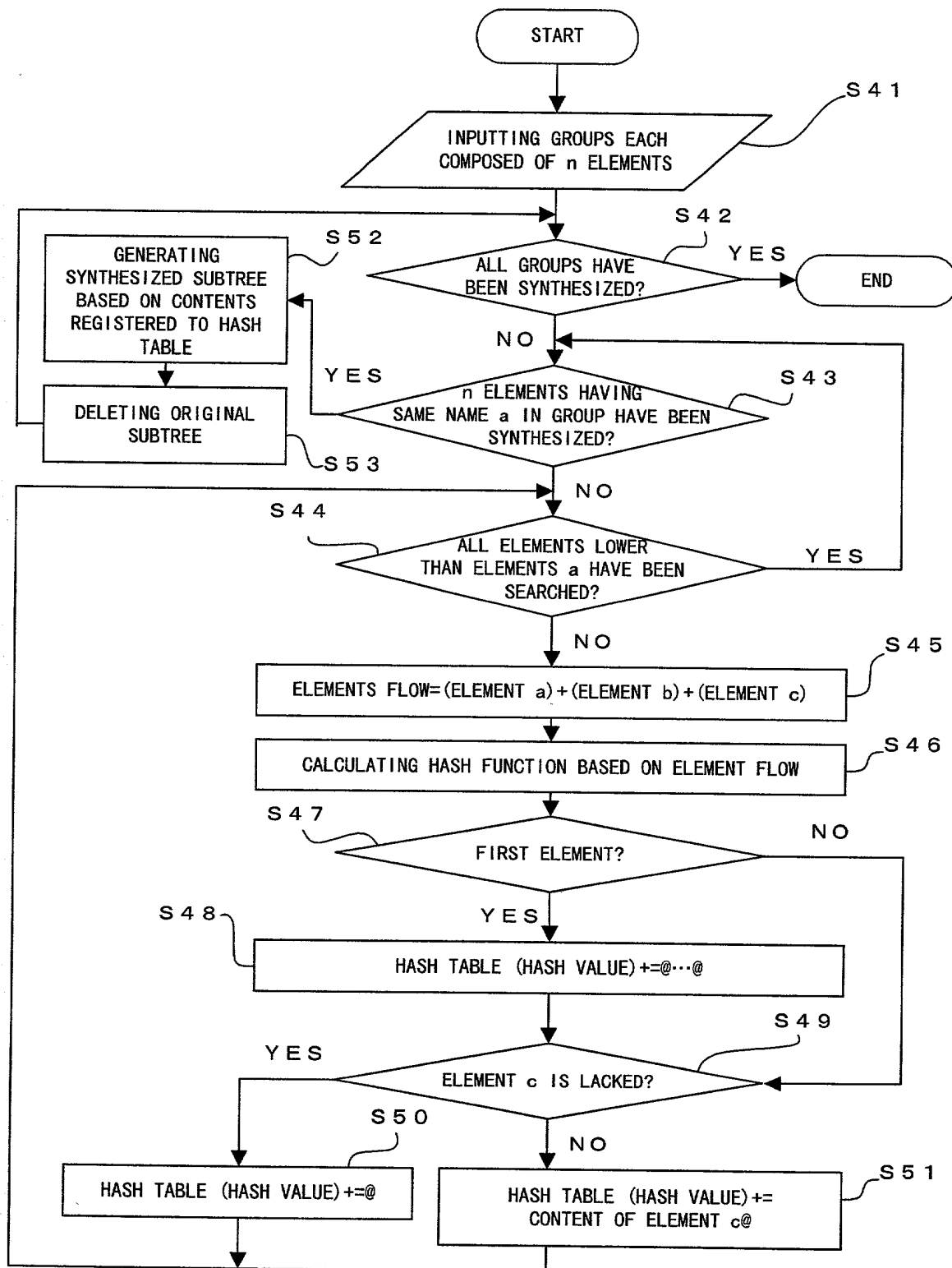


FIG. 15

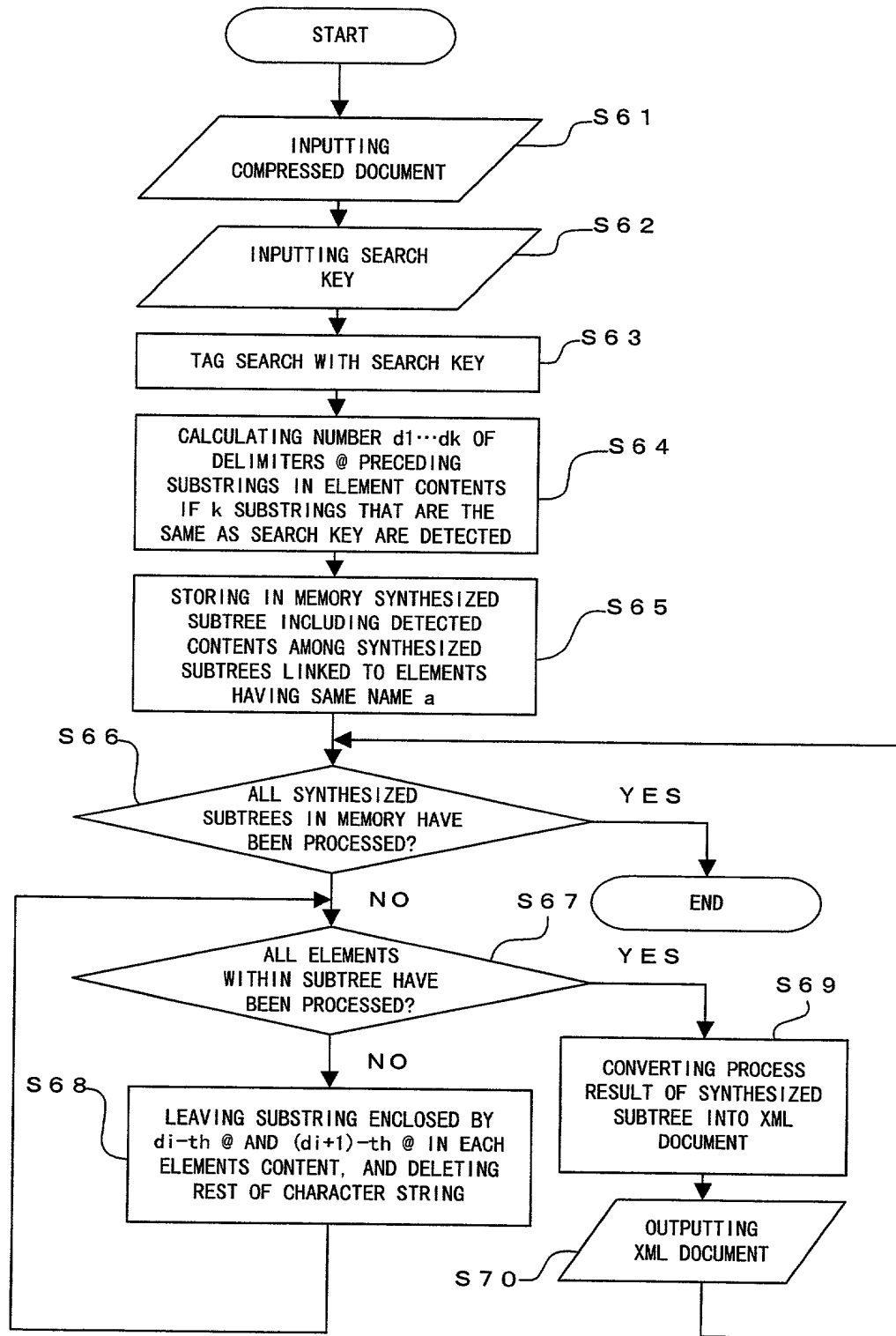


FIG. 16

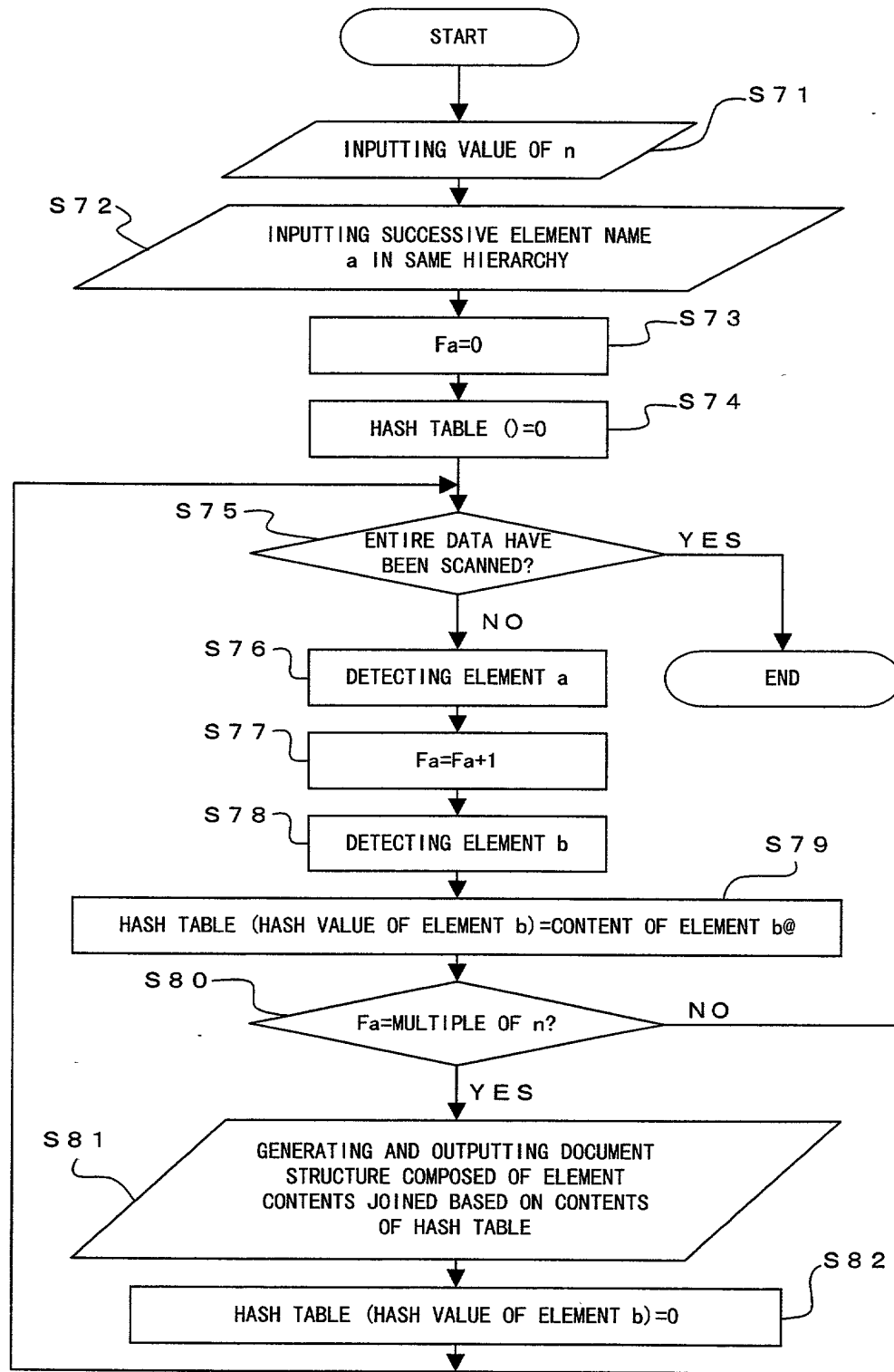


FIG. 17

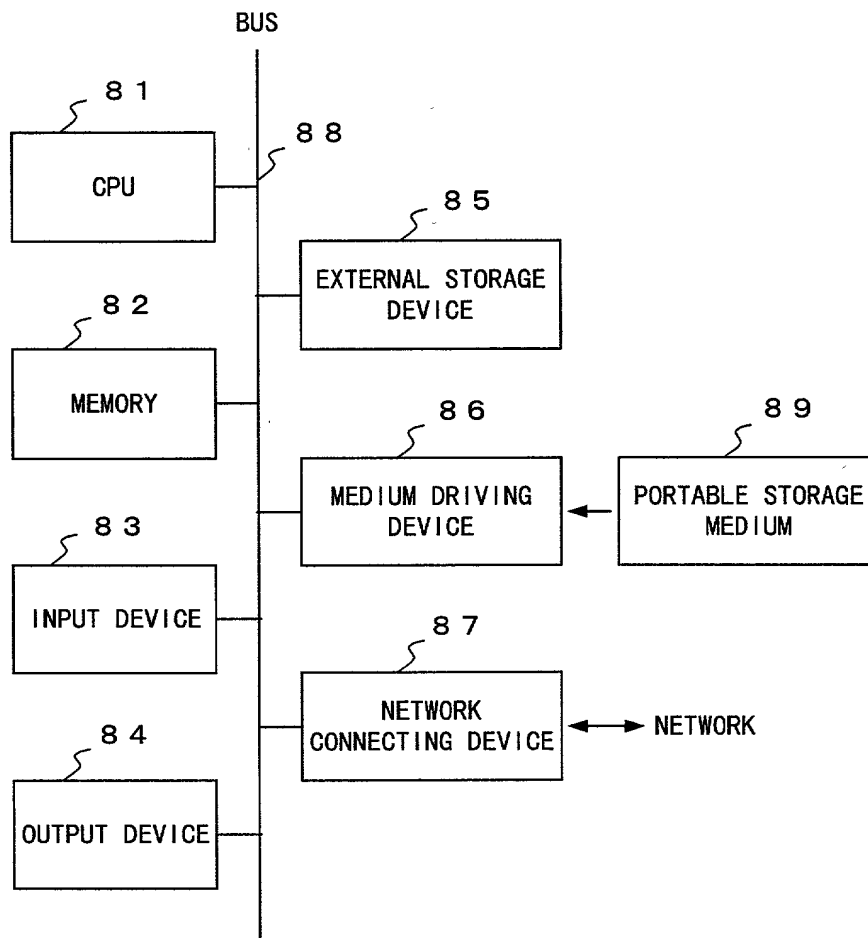


FIG. 18

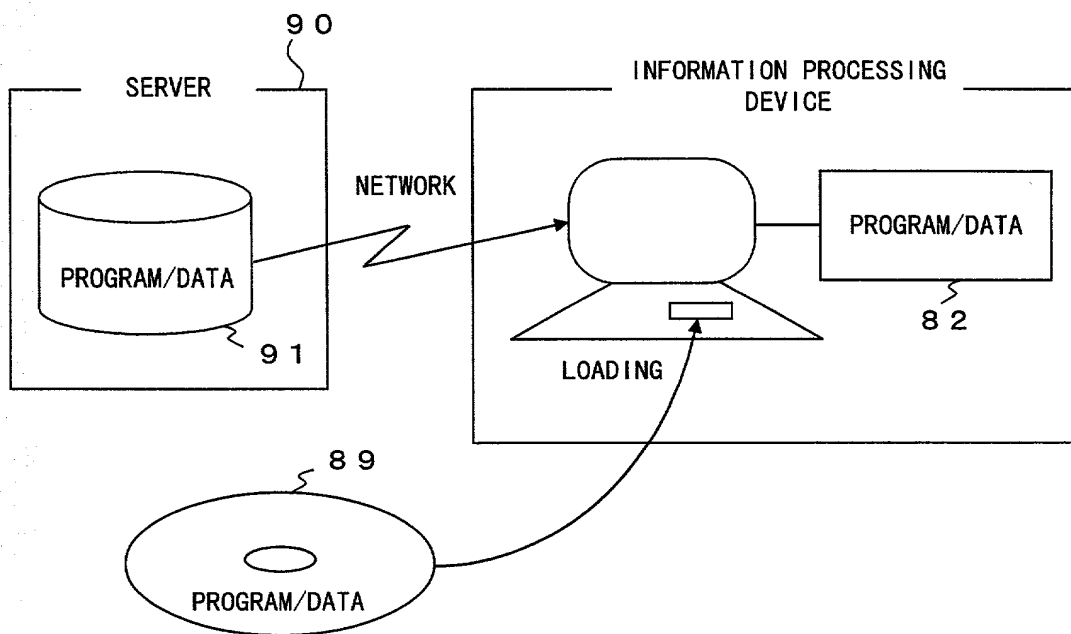


FIG. 19